Title (en)

DEVICE FOR ESTIMATING TIRE WEAR AMOUNT AND VEHICLE MOUNTED WITH DEVICE FOR ESTIMATING TIRE WEAR AMOUNT

Title (de)

VORRICHTUNG ZUM SCHÄTZEN DES AUSMASSES VON REIFENVERSCHLEISS UND MIT DIESER VORRICHTUNG ZUM SCHÄTZEN DES AUSMASSES VON REIFENVERSCHLEISS VERSEHENES FAHRZEUG

Title (fr)

DISPOSITIF D'ESTIMATION DE L'USURE DE PNEUS ET VÉHICULE ÉQUIPÉ DE CELUI-CI

Publication

**EP 2123487 A1 20091125 (EN)**

Application

**EP 07832238 A 20071121**

Priority

- JP 2007072508 W 20071121
- JP 2006335893 A 20061213
- JP 2006335883 A 20061213

Abstract (en)

A vehicle velocity detector 15 is provided, velocity V is detected from position data of the vehicle calculated by using signal from satellites, which is received by a GPS receiver 11 installed to a vehicle body, wheel rotation velocity V w 0 detected by a wheel velocity sensor 12 is corrected in accordance with tire inner pressure detected by a pressure sensor 13 so as to obtain wheel rotation velocity (correction value) V w , velocity ratio R =( V w / V ), which is ratio of the corrected wheel rotation velocity V w and the detected wheel velocity V , is calculated and tire wear amount is estimated in accordance with velocity ratio R so that tire wear amount can be measured precisely without processing the tire tread portion.

IPC 8 full level

**B60C 11/24** (2006.01); **B60C 23/00** (2006.01)

CPC (source: EP US)

**B60C 11/246** (2013.01 - EP US); **B60C 99/006** (2013.01 - EP US); Y10T 152/10027 (2015.01 - EP US)

Cited by

CN105313606A; GB2531746A; EP2705962A1; CN103679542A; US9639882B2; EP3753754A1; IT201900009555A1; US11926328B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 2123487 A1 20091125**; **EP 2123487 A4 20100106**; **EP 2123487 B1 20150729**; US 2010060443 A1 20100311; US 8493200 B2 20130723; WO 2008072453 A1 20080619

DOCDB simple family (application)

**EP 07832238 A 20071121**; JP 2007072508 W 20071121; US 51906707 A 20071121